

10

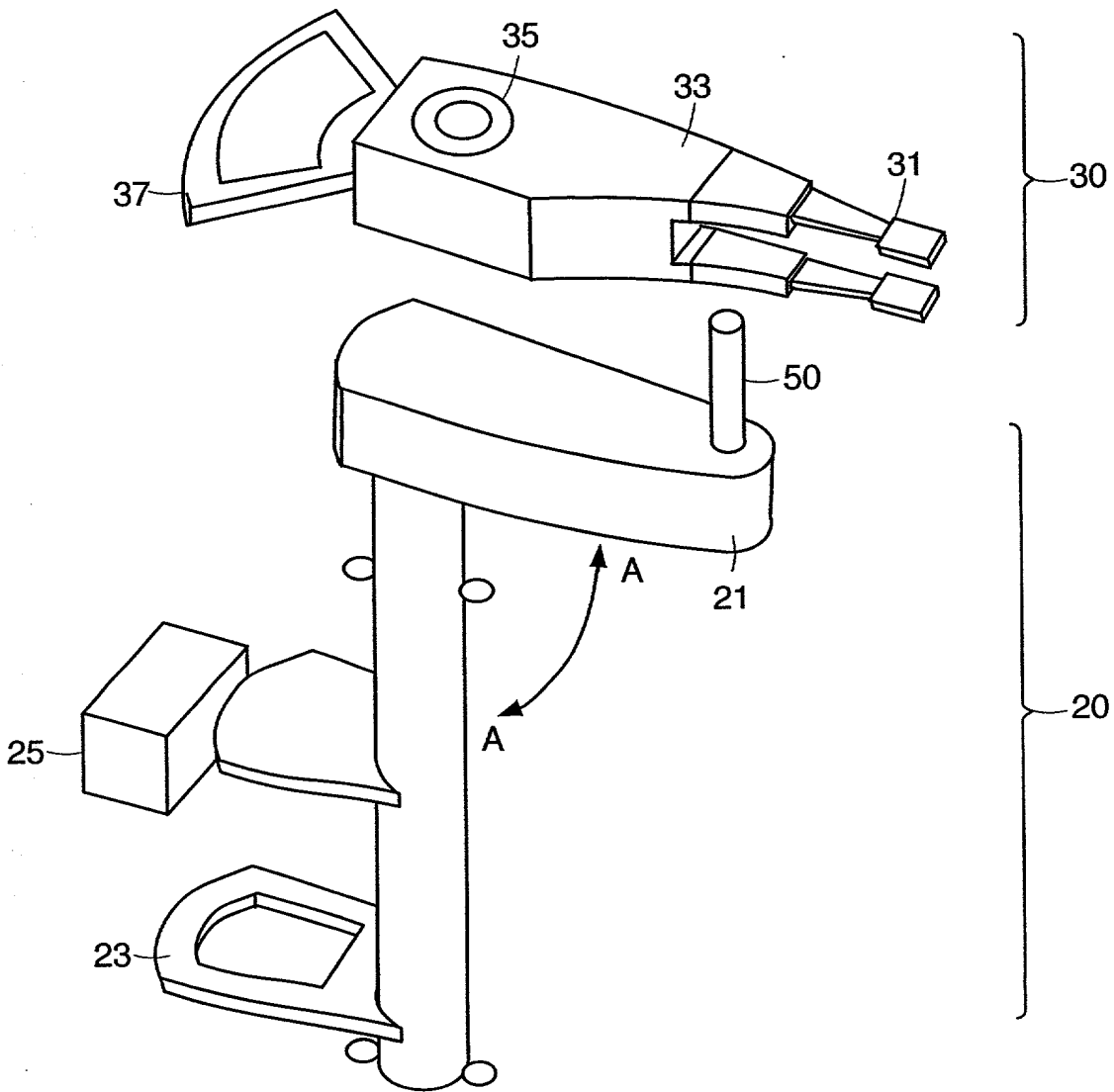


FIG. 1
PRIOR ART

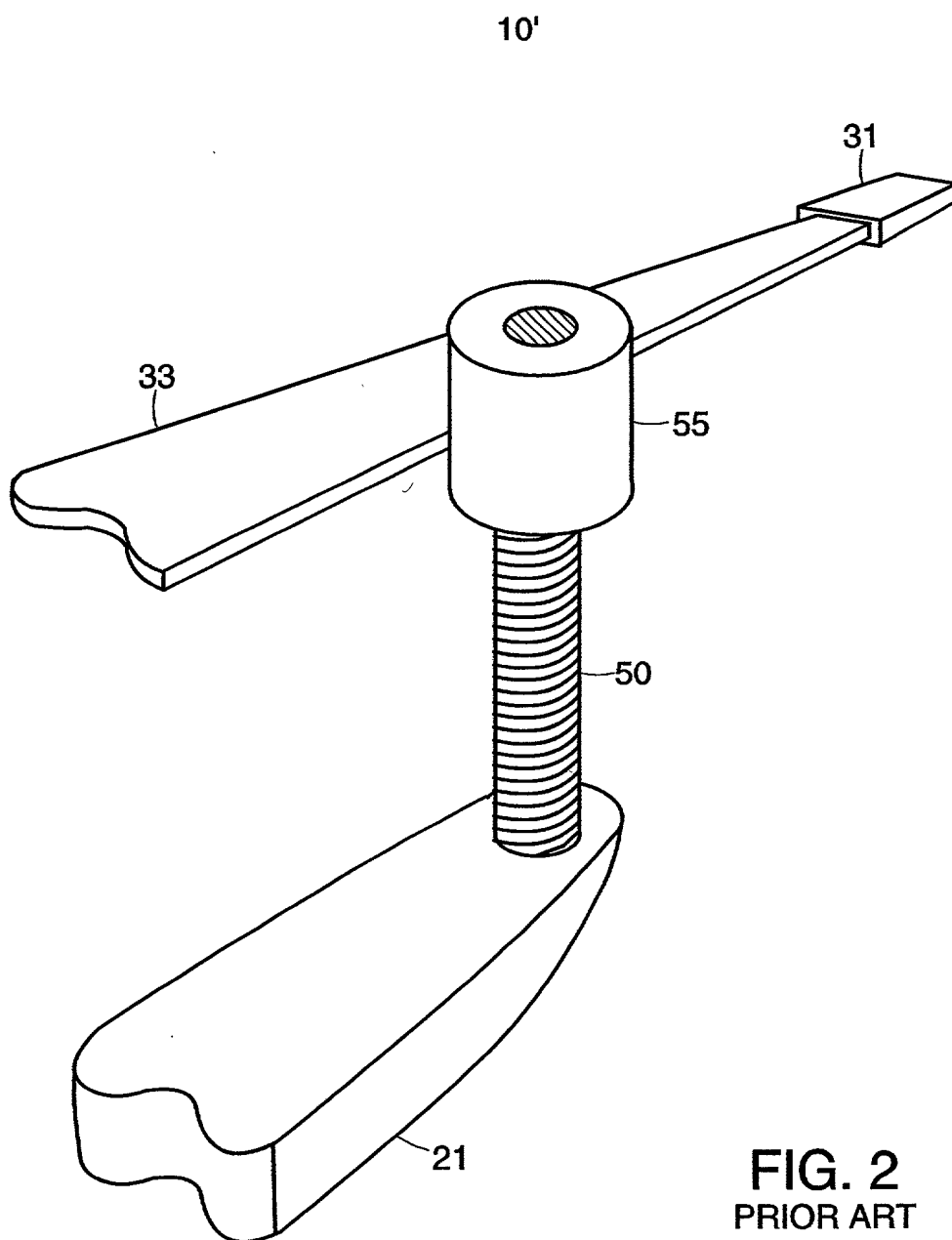


FIG. 2
PRIOR ART

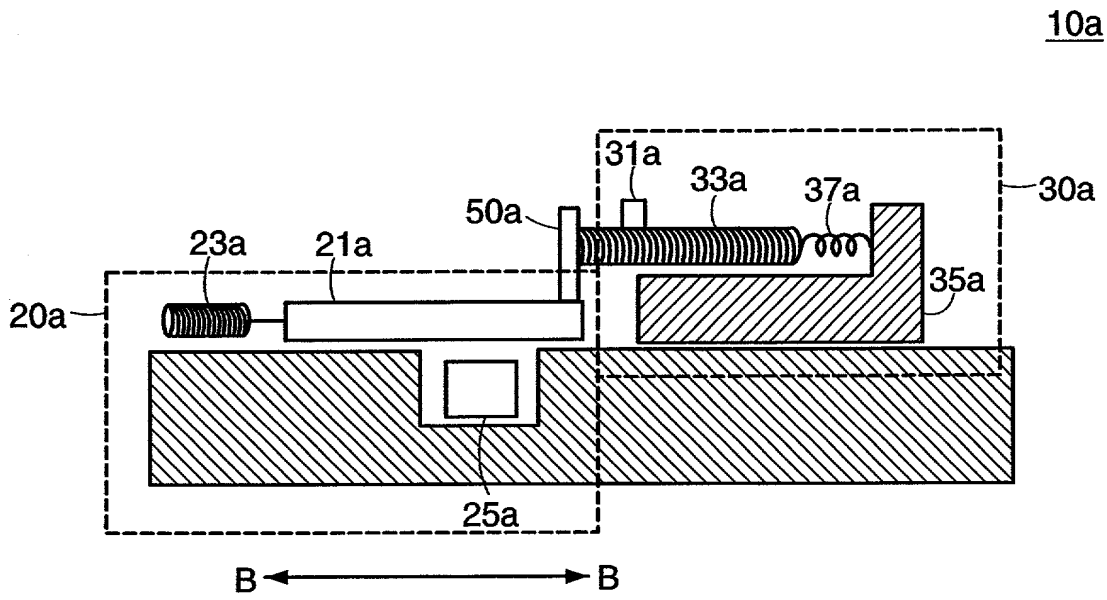


FIG. 3
PRIOR ART

10a'

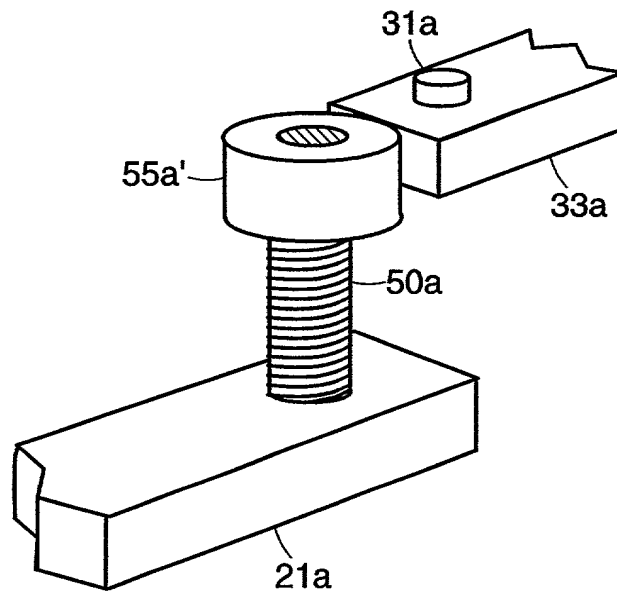


FIG. 4
PRIOR ART

100

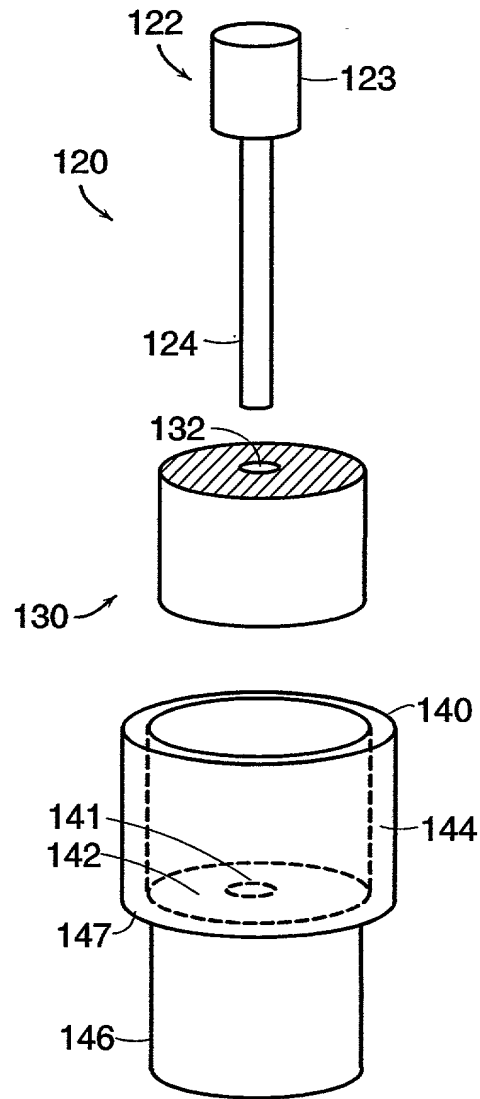


FIG. 5

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5/16

100

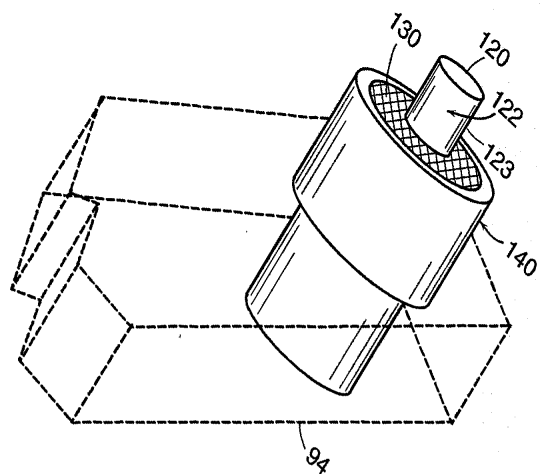


FIG. 6

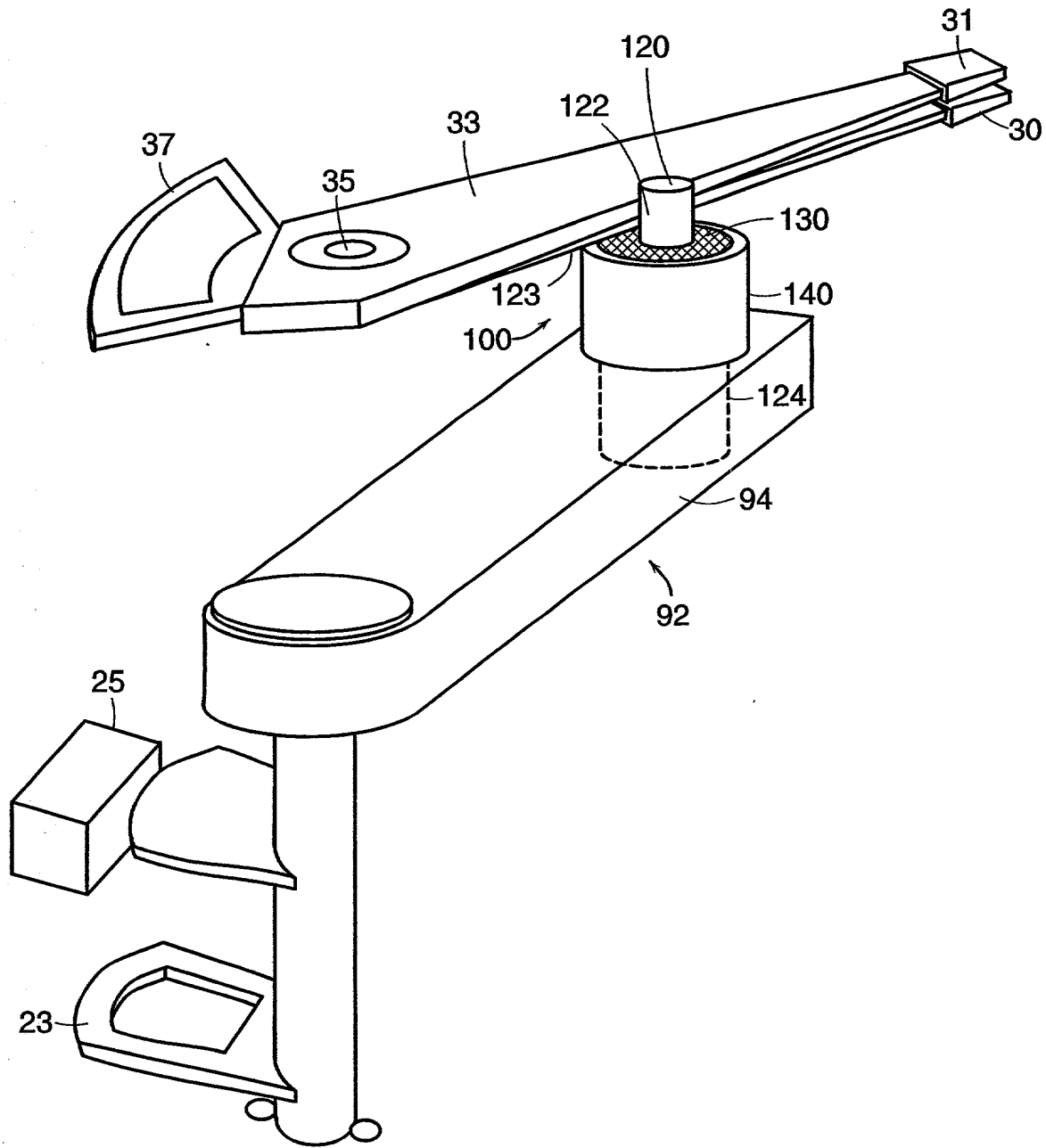
90

FIG. 6A



190

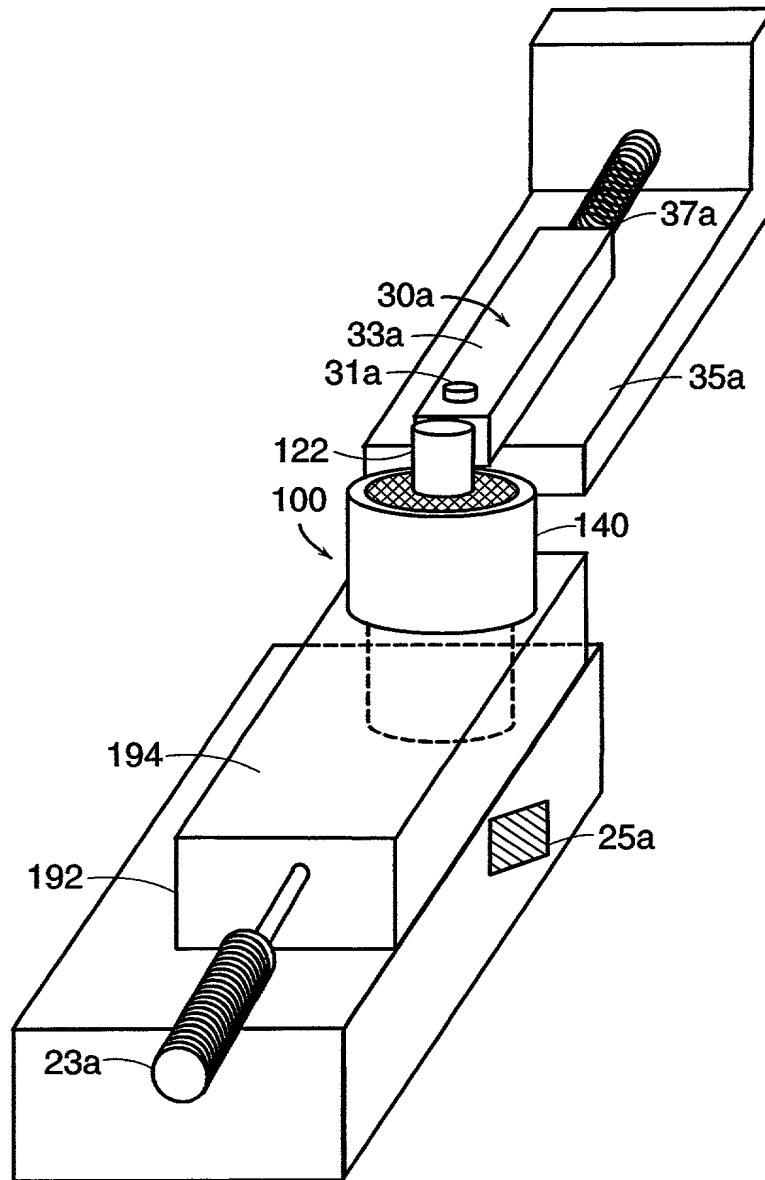
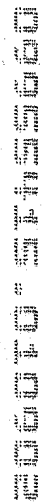


FIG. 6B

THE **WORLD'S** **LARGEST** **BOOK** **STORE**

[illegible]

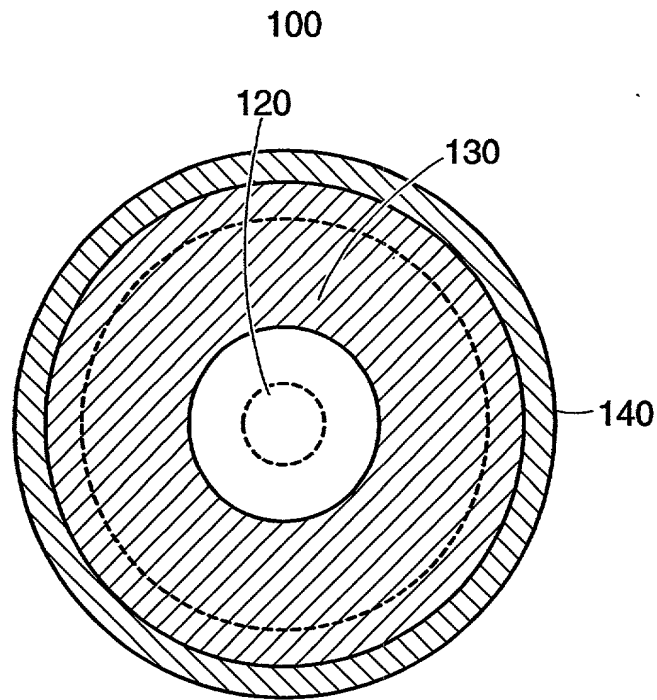


FIG. 8

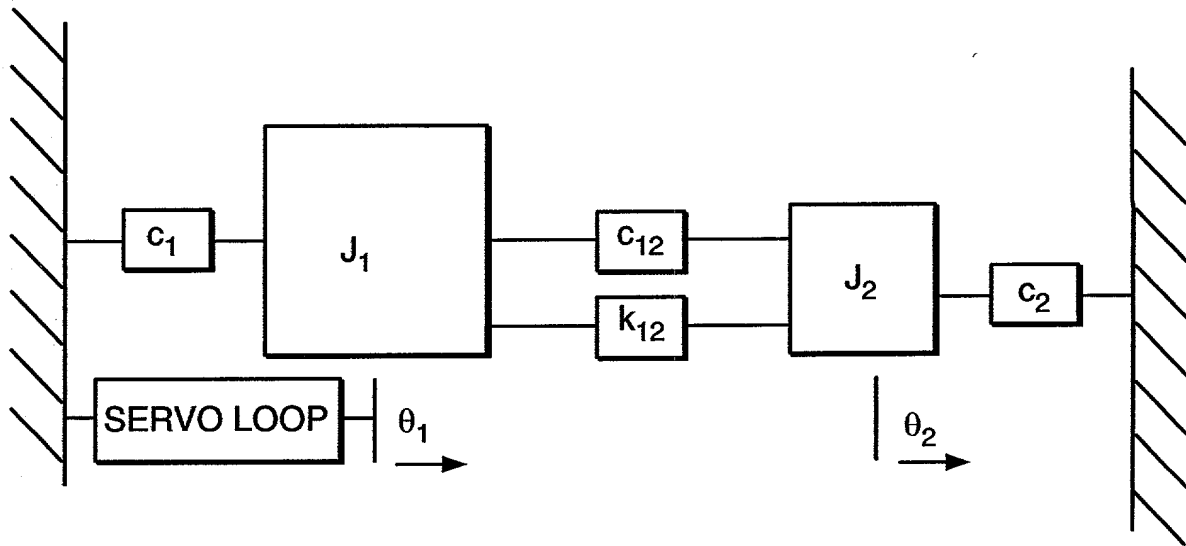
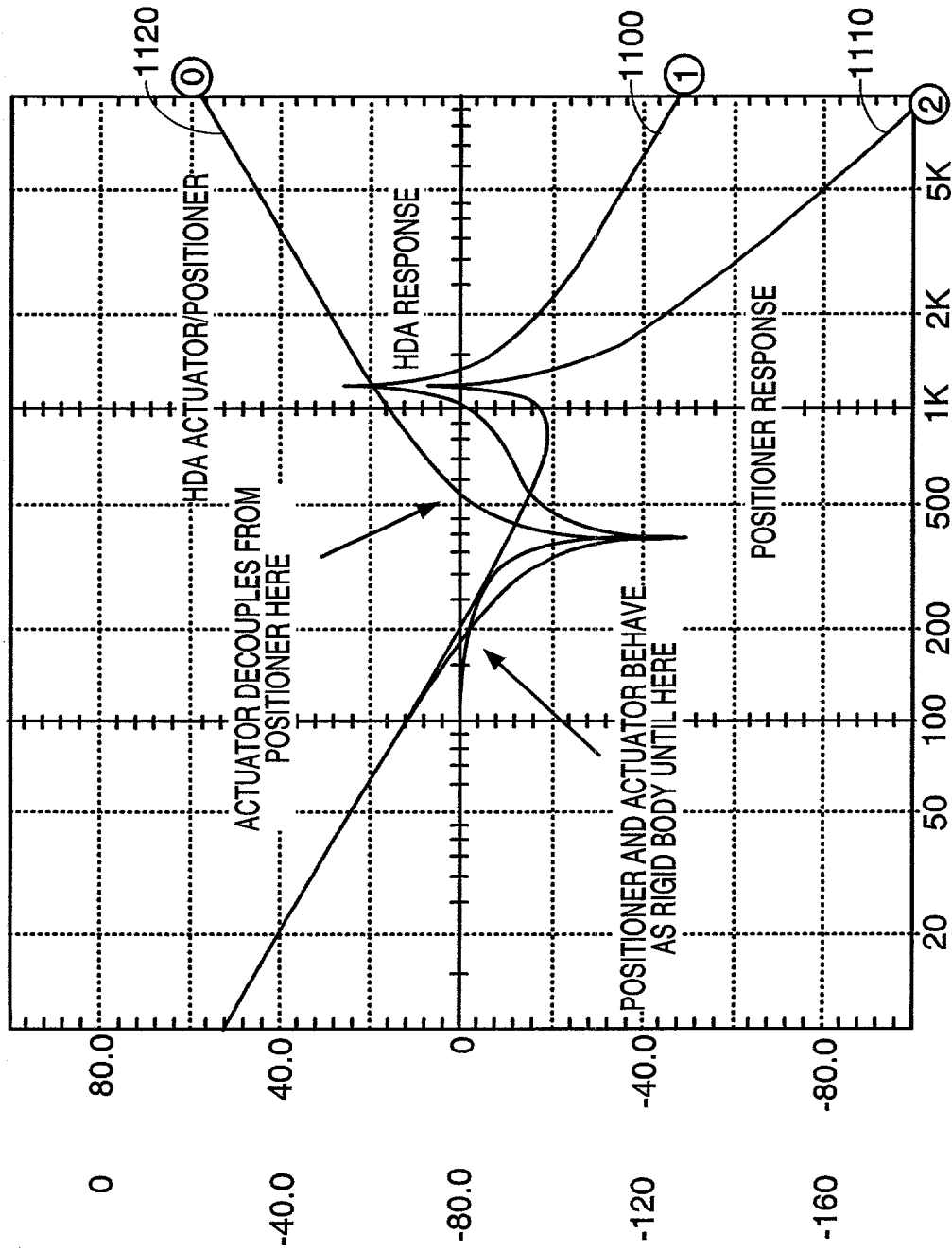


FIG. 9

200703145960



BODE RESPONSE WITH TORQUE DISTURBANCE AT HDA ACTUATOR

FIG. 10

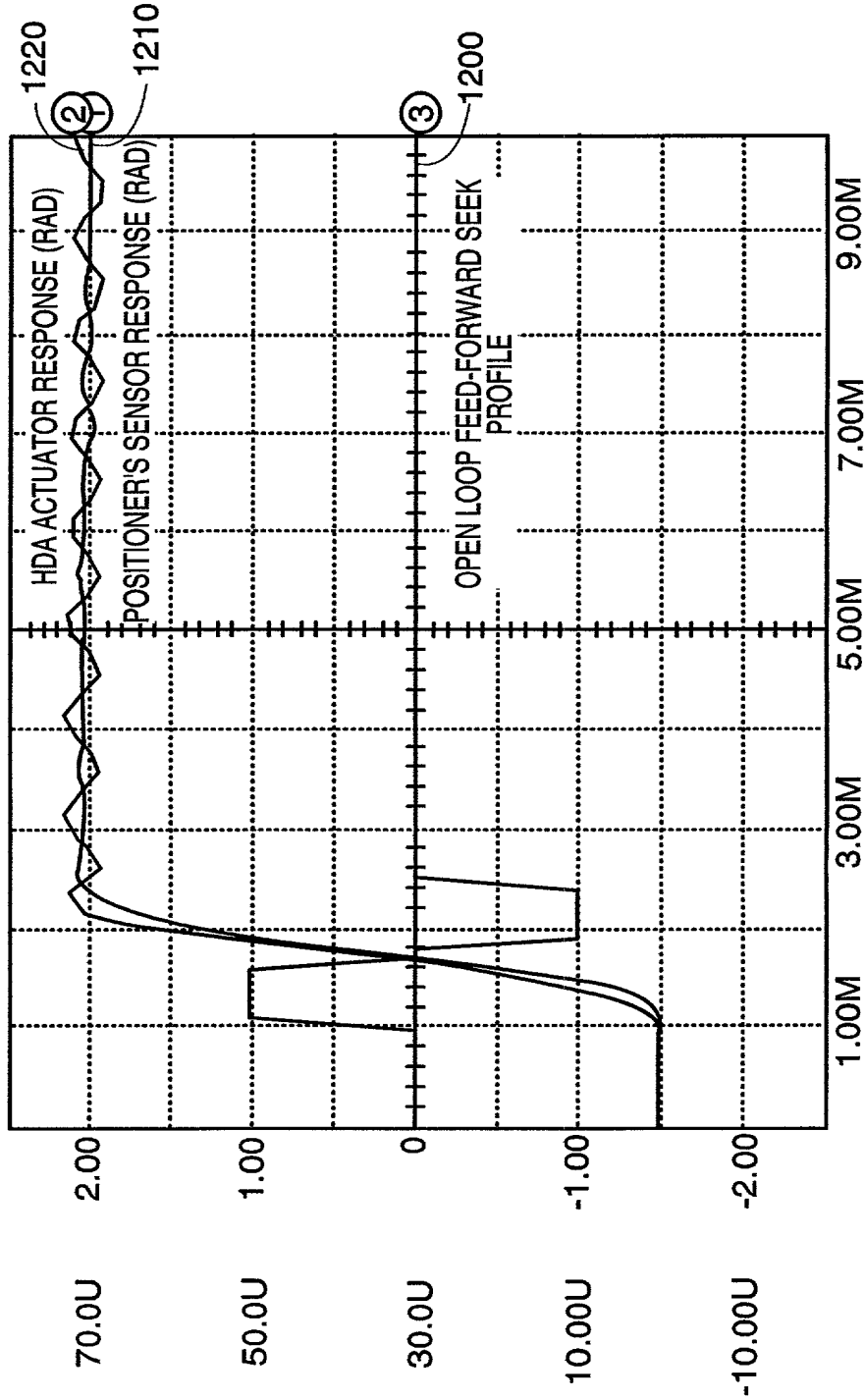
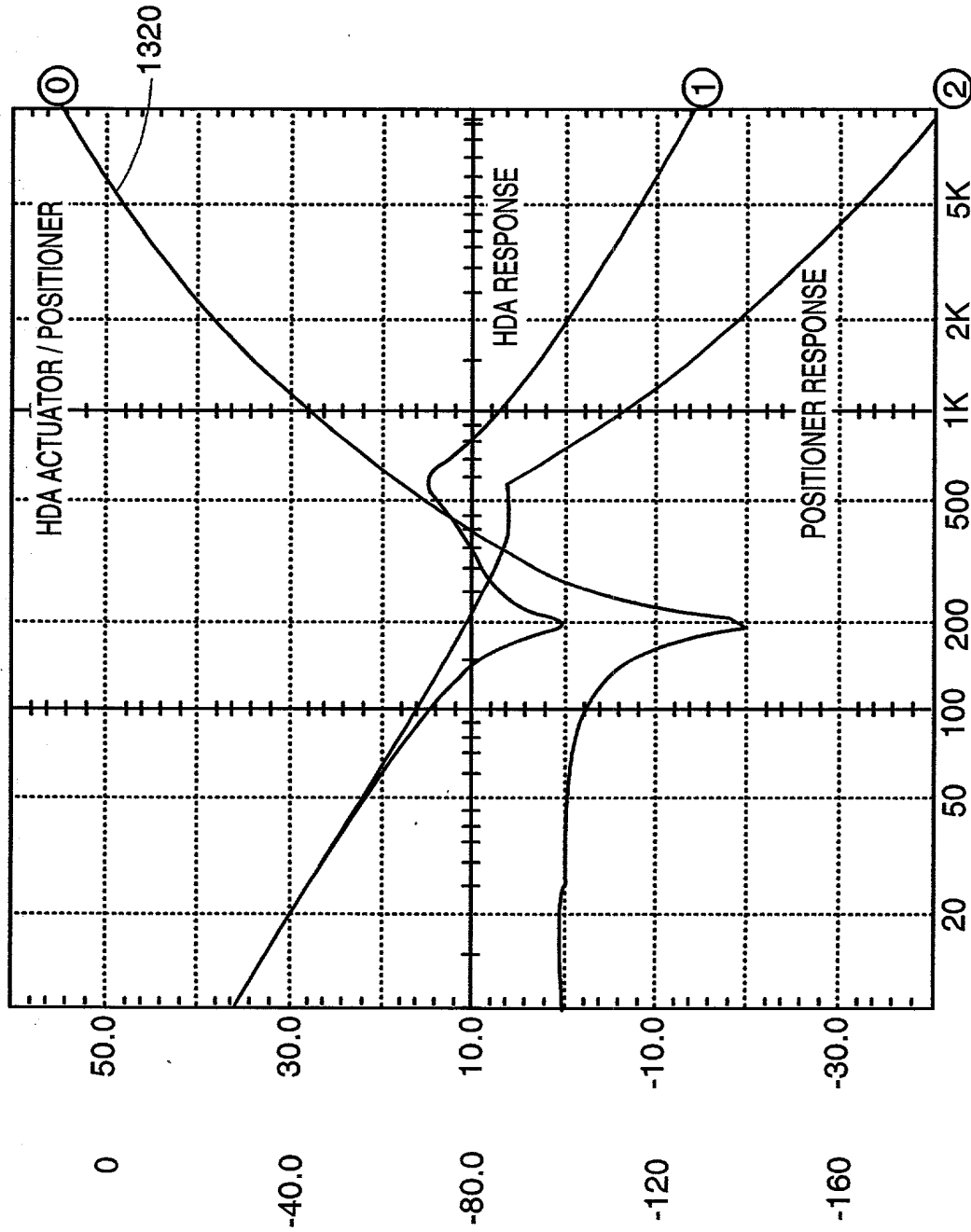


FIG. 11
 TIME IN SECS (M=MILLISECONDS)
 POSITIONER AND HDA RESPONSE WITH BANG-BANG
 SEEK PROFILE WITH STIFF PIN



RESPONSE DUE TO TORQUE DISTURBANCE AT HDA ACTUATOR
WITH SOFT MATERIAL BETWEEN HDA AND POSITIONER

FIG. 12

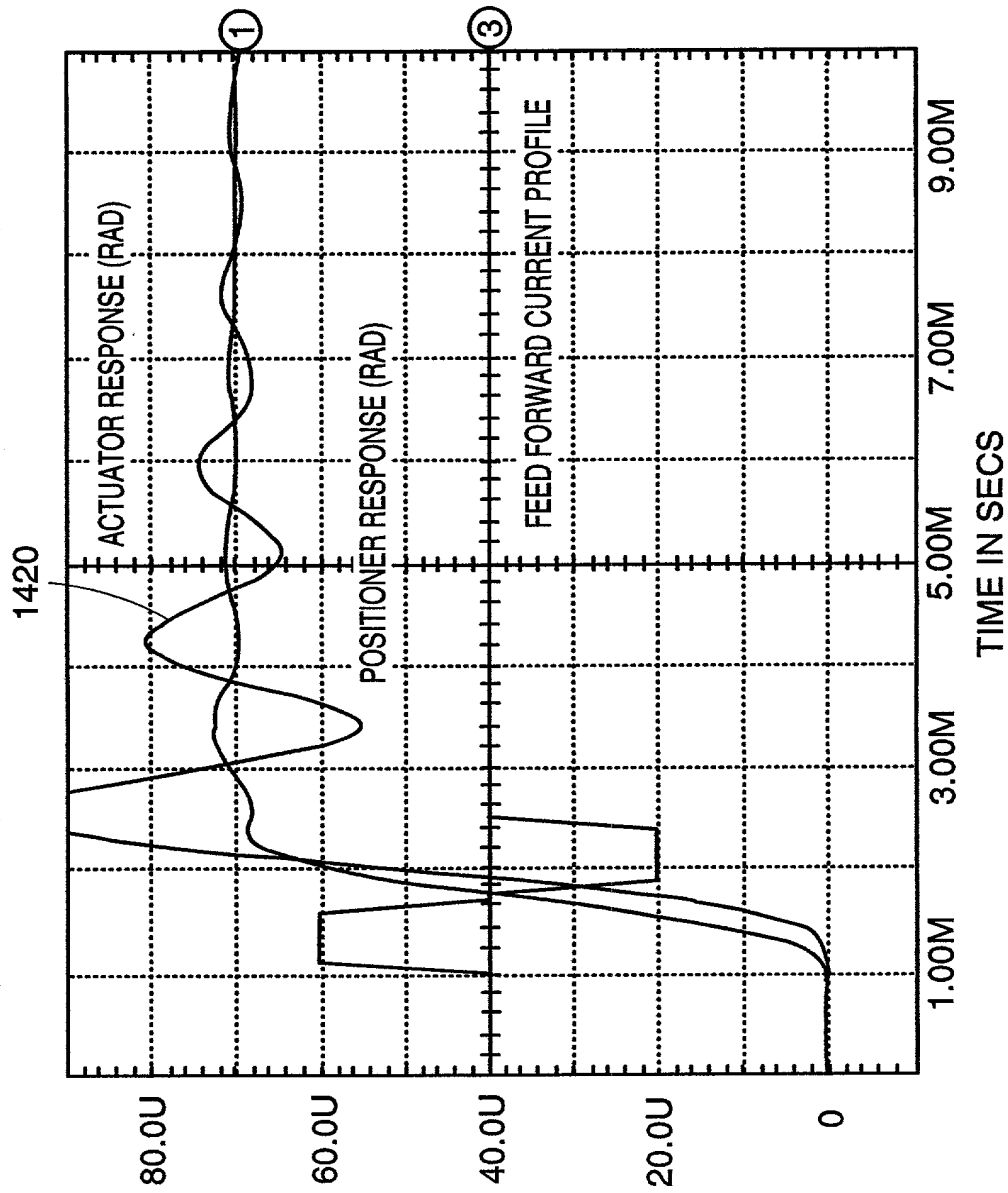


FIG. 13
ACTUATOR AND POSITIONER RESPONSE FOR STANDARD
BANG-BANG SEEK WITH SOFT MATERIAL

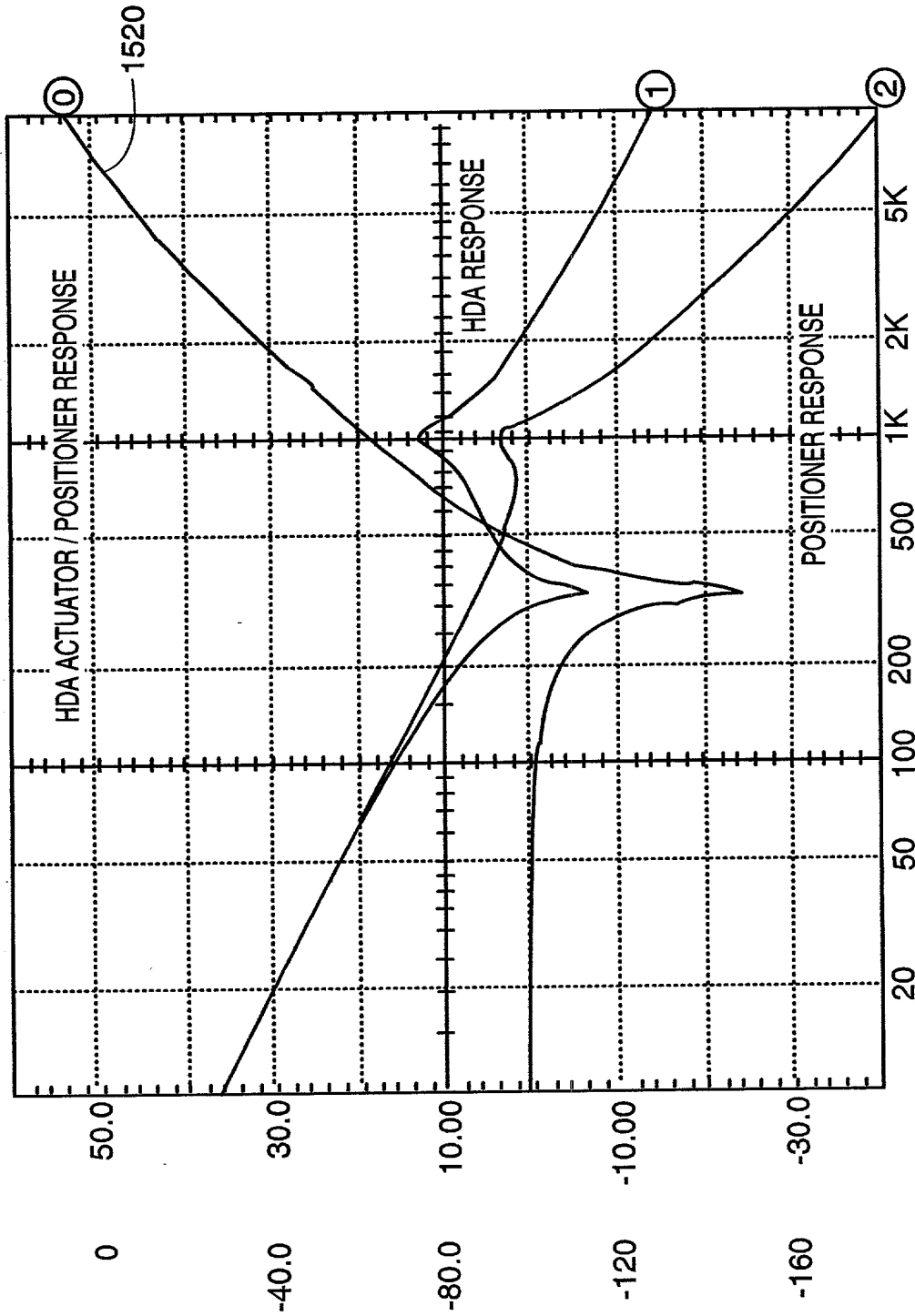


FIG. 14

RESPONSE FOR TORQUE DISTURBANCE AT ACTUATOR WITH ENG PIN



POSITIONER AND ACTUATOR RESPONSE WITH ENGINEERED PIN

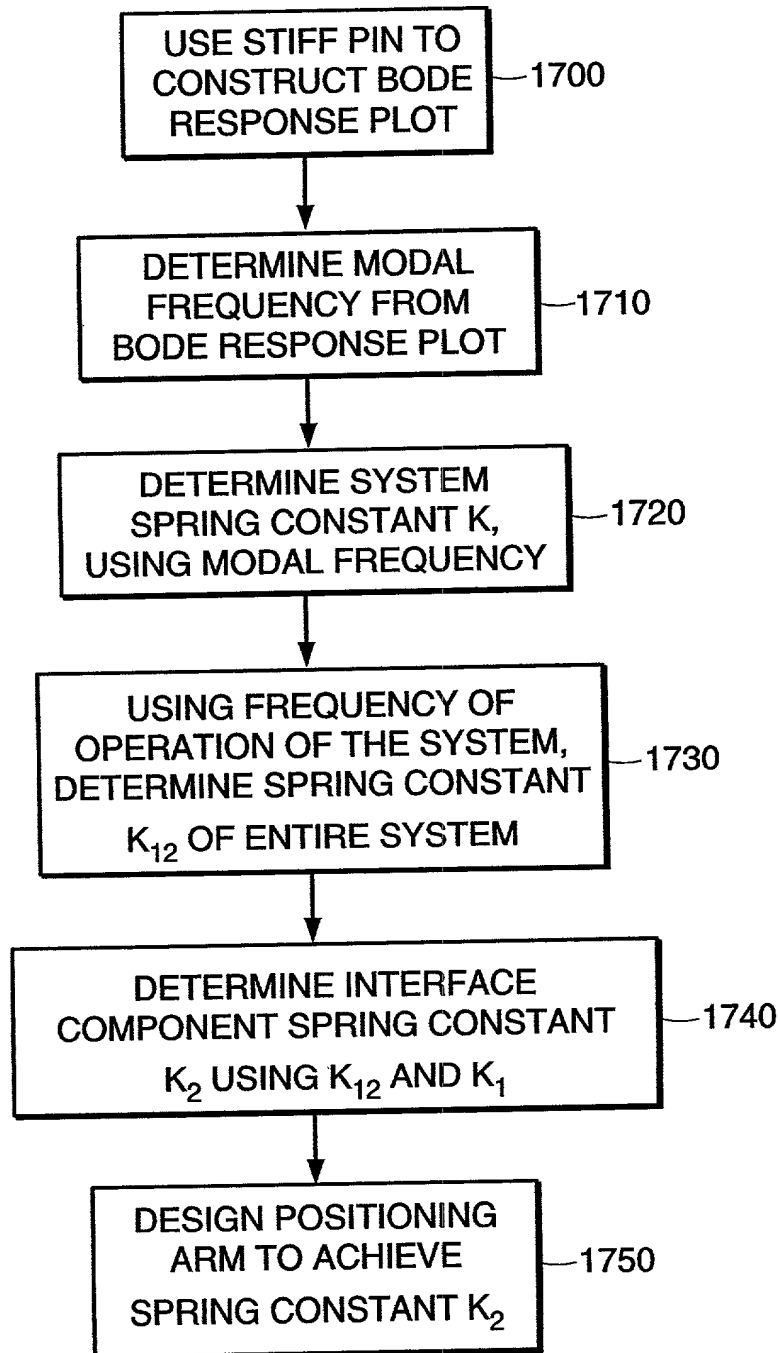


FIG. 16